

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Previously presented) A separator subassembly for a coiled electrode-type electrochemical cell having an anode and a cathode, comprising:
an elongated separator layer; and
means for protecting against a short circuit condition between the anode and the cathode as a material that forms the anode becomes depleted during cell discharge including a spacer layer joined to a portion of the elongated separator layer at a location along the length of the separator layer so that when an anode subassembly is enveloped within the elongated separator layer, the spacer layer aligns with and overlaps a surface-mounted anode current collector of the anode subassembly, and
wherein the spacer layer covers a single side of the anode subassembly and leaves a leading end of the anode subassembly exposed.
2. (Original) A separator subassembly according to claim 1, wherein opposing sides of the elongated separator layer couple together to form a sealed pouch around the anode subassembly.
3. (Original) A separator subassembly according to claim 2, wherein the spacer layer is relatively thicker than the separator layer.
4. (Withdrawn) A separator subassembly according to claim 3, wherein a portion of the separator layer approximately the size of the spacer layer is absent from said separator layer, and further comprising a mechanical or chemical bond disposed along at least a portion of a common periphery region between said separator layer and said spacer layer.

5. (Original) A separator subassembly according to claim 1, wherein said separator layer includes a longitudinal indicia or a longitudinal crease for receiving said a relatively thin edge of the anode assembly.

6. (Previously Presented) A separator subassembly according to claim 5, further comprising an aperture corresponding to an electrical tab member of said anode assembly, said aperture disposed adjacent the spacer layer and in alignment with said longitudinal indicia or said longitudinal crease.

7. (Previously Presented) A separator subassembly according to claim 1, further comprising at least two spacer layers, each of said at least two discrete spacer layers corresponding to, aligning with, and overlapping, respectively, a one of at least two surface-mounted current collectors coupled to the anode subassembly.

8. (Previously Presented) A separator subassembly according to claim 1, wherein the anode subassembly further comprises:

a lithium material; and

wherein the surface-mounted current collector couples to the lithium material.

9. (Previously Presented) A separator subassembly according to claim 8, wherein the surface-mounted current collector comprises a one of: a copper material, a nickel material, a titanium material.

10. (Withdrawn) A method of applying a separator subassembly to an anode subassembly, comprising:

providing an elongated separator layer;

coupling a spacer layer to a portion of the elongated separator layer;

folding the separator layer longitudinally so that an adequate amount of separator material exists on each side of the longitudinal fold to receive and envelop an elongated anode subassembly;

aligning a surface-mounted anode current collector of the anode subassembly with the spacer layer; and

bonding corresponding opposing portions of the separator layer together.

11. (Withdrawn) A method according to claim 10, wherein the spacer layer is relatively thicker than the separator layer.

12. (Withdrawn) A method according to claim 10, wherein the anode subassembly comprises a lithium material and the surface-mounted current collector comprises a one of: a copper material, a nickel material, a titanium material.

13. (Withdrawn) A separator subassembly according to claim 1, wherein the elongated separator layer comprises

an elongated, generally rectangular sheet of dielectric separator material, said sheet of dielectric separator material having a portion removed that corresponds in dimension to a surface-mounted current collector of an anode subassembly for a coil-type electrochemical cell; and

a portion of the spacer layer is bonded in place of the removed portion.

14. (Withdrawn) A separator subassembly according to claim 13, wherein the portion of spacer layer is disposed along an edge of the sheet of dielectric separator material.

15. (Withdrawn) A separator subassembly according to claim 14, further comprising an aperture disposed along a longitudinal crease or a longitudinal indicia and adjacent an edge of the portion of spacer material, wherein said aperture is adapted to receive an electrically conducting tab that couples to the surface-mounted current collector.

16. (Cancelled)

17. (Currently amended) An electrochemical cell having an anode and a cathode coiled together, the cell comprising:

an anode current collector pressed onto the anode along a first surface of the anode along a winding of the anode and cathode coil;

an elongated separator layer folded and sealed to ~~form a pouch around~~ envelope the anode and the anode current collector; and

a spacer layer sealed to the separator layer at a position opposite the anode current collector along a second surface of the anode opposite the first surface for protecting against a short circuit condition between the anode current collector and the cathode as the anode becomes depleted during cell discharge;

wherein the spacer layer covers the second surface opposite the current collector and leaves a leading end of the anode and the first surface of the anode exposed.

18. (Previously presented) The electrochemical cell of claim 17 wherein the first surface is an outer surface of the anode and the winding is an outermost winding of the coil such that the spacer layer is positioned along an inner surface of the anode along the outermost coil winding, opposite the current collector positioned along the outer surface of the anode along the outermost winding of the coil.

19. (Previously presented) The electrochemical cell of claim 17 wherein the separator layer having a longitudinal separator edge, the cell further comprising a seam area extending along the longitudinal separator edge, the spacer layer and the separator layer sealed together along the seam area.

20. (Previously presented) The electrochemical cell of claim 19 wherein the spacer layer is disposed along an inner face of the separator, between the anode and the separator.

Please ADD the following NEW claims:

21. (New) The separator subassembly according to claim 1 wherein the spacer layer is sealed to the separator layer only along a single side of the separator layer.

22. (New) The separator subassembly according to claim 21 wherein the spacer layer is sealed to the separator layer along a seam area extending parallel to a longitudinal separator edge.

23. (New) The separator subassembly according to claim 21 wherein the anode subassembly comprises an anode current collector pressed onto the anode along a first surface of the anode along a winding of the electrode coil, and
the spacer layer being sealed to the separator layer at a position along the separator layer corresponding to a position opposite the anode current collector along a second surface of the anode opposite the first surface.

24. (New) The separator subassembly according to claim 23 wherein the first surface being an outer surface of the anode and the winding is an outermost winding of the coil, wherein the spacer layer being positioned along the separator layer at a position corresponding to the second surface, the second surface being an inner surface of the anode along the outermost winding opposite the current collector.